BRUHAT BANGALORE MAHANAGARA PALIKE

Name of the Work : Comprehensive Development for Roads and Drains In Ward No. 7 And 8 Under CMC & TMC Grants, Kodigehalli Sub-Division, Yelahanka Zone, Byatarayanapura Division.

BYATARAYANAPURA DIVISION

DETAILED MEASURMENT BOOK

3rd PART BILL

Name of the Work : Improvments to Roads and Drains at Bhadrappa Layout, Amco Layout and Surrounding Areas in Ward No 08 Kodigehalli, Kodigehalli Sub Division.

Bruhat Bengaluru Mahanagara Palike							
Bytarayanapura Division							
TOTAL ABSTRACT							
Name Of work : -Comprehensive Development for Roads and Drains In Ward No. 7 And 8 Under CMC & TMC Grants, Kodigehalli Sub-Division, Yelahanka Zone, Byatarayanapura Division.							
Job Code :- 007-16-000035,007-16-000036,007-16-000037,007-16-000038,007-16-000039,007-16-000040,008-16-000033,008-16-000034,008-16-000035, 26621							
Name of Agency :- M/s.Ram and Company							
Bill No :-3rd and Part Bill							
BOQ Item No	**Description**	**Unit**		**Qty**	**Rate**	**Amount**	**Remarks**
1	**KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work**						
	Bhadrappa layout			1343.69			
	Tatanagar			1227.84			
	Sahakar Nagar			2109.33			
	Present Qty			4680.87			
	Previous Bill Qty			2398.42			
	Total			**7079.28**			
	BOQ qty			**7996.35**			
	Qty for payment	**Cum**		**4680.87**	**196.27**	**918713.86**	
2	**Removing and Resetting of Footpath Slab with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work**						
	Bhadrappa layout			128.40			
	Tatanagar			149.70			
	Present Qty			278.10			
	Previous Bill Qty			24.84			
	Total			**302.94**			
	BOQ qty			**613.85**			
	Qty for payment	**Sqm**		**278.10**	**139.13**	**38692.05**	
3	**Removing & Refixing Stone slabs of drains and Pointing in C.M(1:3) with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work**						
	Bhadrappa layout			1042.20			
	Tatanagar			153.60			
	Sahakar Nagar			990.00			
	Present Qty			2185.80			
	Previous Bill Qty			3484.11			
	Total			**5669.91**			
	BOQ qty			**6241.84**			
	Qty for payment	**Sqm**		**2185.80**	**84.59**	**184896.82**	

M/s. RAM & COMPANY

TEJUS CONSULTANTS

Contractor

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

BOQ Item No	Description	Unit		Qty	Rate	Amount	Remarks
4	**Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 7.5cms thick with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work**						
	Bhadrappa layout			183.60			
	Present Qty			183.60			
	Previous Bill Qty			300.75			
	Total			**484.35**			
	BOQ qty			**795.17**			
	Qty for payment	**Sqm**		**183.60**	**698.96**	**128329.06**	
5	**Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 10cms thick with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work**						
	Tatanagar			64.80			
	Sahakar Nagar			174.00			
	Present Qty			238.80			
	Previous Bill Qty			5.94			
	Total			**244.74**			
	BOQ qty			**265.14**			
	Qty for payment	**Sqm**		**238.80**	**867.03**	**207046.76**	
7	**KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work**						
	Tatanagar			17.38			
	Present Qty			17.38			
	Previous Bill Qty			4.39			
	Total			**21.77**			
	BOQ qty			**464.26**			
	Qty for payment	**Cum**		**17.38**	**5616.2**	**97609.56**	
12	**Providing laying plain/ reinforced cement concrete M20 Grade for Box Drain walls of thickness 10cm to 20cm including centering shuttering for work etc. complete as per approved drawing and design MORTH specification No. 1500, 1700, 2200. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work**						
	Tatanagar			51.93			
	Present Qty			51.93			
	Previous Bill Qty			0.00			
	Total			**51.93**			
	BOQ qty			**92.26**			
	Qty for payment	**Cum**		**51.93**	**11584.10**	**601562.31**	

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Bangalore

BOQ Item No	Description	Unit		Qty	Rate	Amount	Remarks
13	**KSRB 4.9.2 : Providing T.M.T steel reinforcement Fe 500 for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3**						
	Tatanagar			2.59			
	Present Qty			2.59			
	Previous Bill Qty			0.00			
	Total			**2.59**			
	BOQ qty			**30.42**			
	Qty for payment	**Cum**		**2.59**	**77375.76**	**200237.96**	
20	**Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate) with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work**						
	Bhadrappa layout			21.60			
	Tatanagar			36.90			
	Present Qty			58.50			
	Previous Bill Qty			12.00			
	Total			**70.50**			
	BOQ qty			**138.01**			
	Qty for payment	**Sqm**		**58.50**	**1907.85**	**111609.23**	
23	**KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work**						
	Bhadrappa layout			144.96			
	Tatanagar			74.46			
	Sahakar Nagar			174.38			
	Present Qty			393.80			
	Previous Bill Qty			658.81			
	Total			**1052.61**			
	BOQ qty			**2282.20**			
	Qty for payment	**Cum**		**393.80**	**156.2**	**61511.56**	

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BOQ Item No	Description	Unit		Qty	Rate	Amount	Remarks
24	**KSRRB M 400-17, Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub- base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. MORTH Specification No. 406 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work**						
	Bhadrappa layout			144.96			
	Tatanagar			74.46			
	Sahakar Nagar			174.38			
	Present Qty			393.80			
	Previous Bill Qty			1193.56			
	Total			**1587.36**			
	BOQ qty			**2034.18**			
	Qty for payment	**Cum**		**393.80**	**1856.48**	**731081.82**	
25	**KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work**						
	Bhadrappa layout			579.85			
	Tatanagar			297.85			
	Sahakar Nagar			697.50			
	Present Qty			1575.20			
	Previous Bill Qty			4774.56			
	Total			**6349.76**			
	BOQ qty			**7354.88**			
	Qty for payment	**Sqm**		**1575.20**	**31.16**	**49083.23**	
26	**KSRRB 500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatement including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Spec, Chapter 5 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work**						
	Bhadrappa layout			6759.30			
	Tatanagar			6156.43			
	Sahakar Nagar			10498.38			
	Present Qty			23414.10			
	Previous Bill Qty			18144.91			
	Total			**41559.01**			
	BOQ qty			**45011.12**			
	Qty for payment	**Sqm**		**23414.10**	**3.34**	**78203.09**	

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BOQ Item No	Description	Unit		Qty	Rate	Amount	Remarks
27	**KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work**						
	Bhadrappa layout			7739.60			
	Tatanagar			6566.33			
	Sahakar Nagar			11893.38			
	Present Qty			26199.30			
	Previous Bill Qty			28487.63			
	Total			**54686.93**			
	BOQ qty			**59894.00**			
	Qty for payment	**Sqm**		**26199.30**	**13.36**	**350022.65**	
28	**KSRRB M500-16. Providing and laying dense bituminous macadam 50-75mm compacted thickness with 4.5% VG-30 Bitumen using 40/60 TPH capacity H.M.P, using crushed aggregates of grading II, premixed with VG 30 grade bituminous binder and transporting the hot mix to work site, laying with mechanical paver to the required grade level and alignment rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10, complete in all respects complete as per specification MORTH specification No. 507 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work**						
	Bhadrappa layout			20.02			
	Tatanagar			5.60			
	Sahakar Nagar			34.88			
	Present Qty			60.50			
	Previous Bill Qty			269.25			
	Total			**329.75**			
	BOQ qty			**375.70**			
	Qty for payment	**Cum**		**60.50**	**7388.09**	**446979.45**	
29	**KSRRB M500-19. Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work**						
	Bhadrappa layout			293.57			
	Tatanagar			258.17			
	Sahakar Nagar			447.84			
	Present Qty			999.57			
	Previous Bill Qty			918.92			

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BOQ Item No	Description	Unit		Qty	Rate	Amount	Remarks
	Total			1918.49			
	BOQ qty			2094.64			
	Qty for payment	**Cum**		**999.57**	**8414.28**	**8410678.69**	
37	**KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work**						
	Bhadrappa layout			71.95			
	Tatanagar			146.27			
	Sahakar Nagar			390.50			
	Present Qty			608.72			
	Previous Bill Qty			695.00			
	Total			**1303.72**			
	BOQ qty			**1751.75**			
	Qty for payment	**Sqm**		**608.72**	**569.86**	**346882.33**	
	~~**Add cost of Waste Plastic @ 8% of Bitumen Weight**~~						
	~~Bhadrappa layout~~			3311.42			
	~~Tatanagar~~			2912.17			
	Sahakar Nagar			5051.58			
	Present Qty			11275.17			
	Previous Bill Qty			8442.63			
	Total			**19717.80**			
	BOQ qty			**67314.24**			
	Qty for payment	**Kgs**		**11275.17**	**27.00**	~~304429.65~~	
	GRAND TOTAL					~~12963570.08~~	

12963140.43

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